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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,768	07/28/2003	Raymond F. Ryan	5011-017	5781	
25184 7	590 07/20/2004		EXAMINER		
WILLIAM J.	MASON		PHAM, MINH CHAU THI		
MACCORD M POST OFFICE			ART UNIT	PAPER NUMBER	
	LE BEACH, NC 28480		1724 DATE MAILED: 07/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

			/		
	Application No.	Applicant(s)			
	10/628,768	RYAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Minh-Chau T. Pham	1724			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	h the correspondence addres	S		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT a, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this community. NDONED (35 U.S.C. § 133).	nication.		
Status					
1) Responsive to communication(s) filed on					
<u> </u>	action is non-final.				
3) Since this application is in condition for allowa	nce except for formal matte	rs, prosecution as to the me	rits is		
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the application	ı .				
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-17</u> is/are rejected.	6)⊠ Claim(s) <u>1-17</u> is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to b	y the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s	s) is objected to. See 37 CFR 1.	.121(d).		
11) The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-1	52.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) All b) Some * c) None of:					
1. Certified copies of the priority document	ts have been received.				
2. Certified copies of the priority document	ts have been received in Ap	plication No			
3. Copies of the certified copies of the price		• • • • • • • • • • • • • • • • • • • •	ge		
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not r	eceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		immary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Inf	/Mail Date formal Patent Application (PTO-152	()		
Paper No(s)/Mail Date <u>1/15/04</u> .	6) 🔲 Other:	_·			

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7, 8 and 10-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Thakur et al (6,623,538 B2) or Landy (4,548,627).

Thakur et al disclose a portable sterile laminar air flow device cabinet comprising a work chamber, a single fan (S) for conveying air from the discharge opening to the return air inlet, a first HEPA filter (B) between the fan and the discharge opening, a second HEPA filter (U) between the exhaust port and the work chamber, and an exhaust port downstream of the fan and the fan being the only means for conveying air within the cabinet (see Fig. 3; col. 2, lines 32-40). Landy discloses a biological laminar air flow safety cabinet comprising a work chamber, a single fan (30) for conveying air from the discharge opening to the return air inlet, a first HEPA filter (32) between the fan and the discharge opening, a second HEPA filter (34) between the exhaust port and the work chamber, and an exhaust port downstream of the fan and the fan being the only means for conveying air within the cabinet (see Fig. 8; col. 3, lines 13-36). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a single fan in the laminar air flow safety cabinet as taught by either Thakur et al or Landy to provide a compact, portable, lightweight, low power

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consuming, convenient, versatile and sterile laminar airflow device, useful in obtaining a workspace substantially devoid of airborne particulate contaminants.

Claims 6, 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Thakur et al (6,623,538 B2) or Landy (4,548,627), in view of Calsteren et al (3,944,405).

Claims 6, 9 and 17 call for an exhaust port including a filter. Calsteren et al disclose an exhaust port of a down flow chamber having a filter (16 in Fig. 2; col. 3, lines 53-55; col. 4, lines 3-8). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a filter at the exhaust port of the laminar airflow device of either Thakur et al or Landy so that the contaminated air is efficiently filtered before being exhausted into the atmosphere.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Whitfield (3,273,323) discloses a laminar flow air hood.
- Krainiak et al (5,711,705) disclose an isolation work station.
- Janus et al (6,283,241 B1) disclose a protective filtration system.
- Kotliar (6,508,850 B1) discloses a clean air tent system.
- Mears et al (4,927,438) disclose a horizontal laminar air flow work station.
- Peters (4,832,717) discloses a clean air cabinet.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh-Chau Pham Patent Examiner Art Unit: 1724

July 19, 2004